

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

REF. 111-124

Reflection of electromagnetic waves by a layer with negative dielectric constant. S. M. Rytov and E. S. Juckevitch (*J. Physics U.R.S.S.*, 1940, **11**, 111-124).—The wave-distribution produced when a plane electromagnetic wave impinges on a plane layer with negative dielectric const. (a) without sharply defined boundaries is deduced by geometrical optical considerations and by integration of the wave equation for a model of such a layer. For the case of total reflexion and small ϵ gradients, the electrical wave is intensified immediately in front of the layer. This effect explains the non-linear effects found in the ionosphere, notably the Luxemburg effect. L. J. J.

AS - SLA METALLURGICAL LITERATURE CLASSIFICATION

6-2

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

12-1

Diffraction of light by ultrasonic waves. S.M.
RITOV. (Bull. Acad. Sci. U.R.S.S., 1937, Ser. Phys.,
223-259).— Theoretical. J. S. A.

ASD SLA METALLURGICAL LITERATURE CLASSIFICATION

Series	Sub-Series	Classification
1	1	1
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3	3	3
4	4	4
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1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
PC A-1 Diffraction of light by ultrasonic waves. S. M. Rorov (Physical. Z. Sovetskion, 1936, 8, 626—643).—The theory of Debye and Brillouin is extended, the case of small angle of incidence being treated. To test the results, a goniometer was used to investigate the diffraction with ultrasonic waves in liquids (C₂H₆ and PhMe) and in quartz. There is satisfactory agreement. A. J. M.																																																			
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ZHDAHNOV, V.M.; RITOVA, V.V.; GEFEN, N.Ye.; ZHUKOVSKIY, A.M.;
BERLYANT, M.L.; YEVSTIGNEYEVA, N.A.; YEGOROVA, N.B.; KREYNIN,
L.S.; LEONIDOVA, S.L.; SERGEYEV, V.M.; SMIRNOV, M.S.

Comparative study of intranasal and aerosol methods of
vaccination against influenza. Zhur. mikrobiol., epid. i
immun. 33 no.11:63-67 N '62. (MIRA 17:1)

1. Iz Instituta virusologii imeni Ivanovskogo AMN SSSr.

RITOVA, U. V.

32770. SOLOV'YEV, V. D.; RITOVA, U. V.;; DUDKINA, V. K. Znacheniye passinogo
immuniteta k grippu v rannem vozraste. Pediatriya, 1949, No. 5, s. 28-35

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

RITOVA, V.V., SOLOVYEV, V.D. and LUKINA, V.A.

Significance of Passive Immunity to Influenza in Infants."

Titres of influenza A and B antibodies were determined in blood samples taken shortly after birth from 200 mothers and their 200 infants; the agglutination-inhibition method was used. The findings were identical in each mother and infant; 40 sera contained A antibodies, 42B, and 44 both A and B; the remainder of positive sera was thus 63. The average titre in the infants' sera was 1 in 40 (53 cases). The placental transmission of influenzal antibodies, was thus clearly demonstrated. The titre in the second month of life was determined in 89 infants; a general fall was noted, to zero in 33 cases. By this time 8 cases of influenza had occurred amongst these infants (9%), whereas 10 (23.2%) had occurred in a comparable group of 43 infants who had no influenzal antibodies at birth. In an investigation carried out on 46 infants at the age of 7 months, it was found that antibodies were present in only 5 instances (1.8%), showing that passive immunity had largely disappeared by this age.

D.J. BAUER

Abstracts of World Medicine Vol.7 1950
No. 5, 28-35, Sept.- Oct., 1949.

Inst. Virology, Dept. Hygiene, Microbiol. + Epidemiol., AMS USSR

RITOVA, V. V.

"The Etiology of Influenza and Acute Catarrhs in Young Children," Problema
Grippa i Ostrykh Katarrov Verkhnikh Dykhatel'nykh Putey, Moscow, 1952, pp 11, 12.

W-27086, 25 July 53

RETOVA, V. V.

RETOVA, V. V. - "Epidemiology of Influenza in Children of an Early Age."
Sub 7 Feb 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate
in Medical Sciences.)

SO: Vechernaya Moskva January-December 1952

RITOVA, V.V.

[Influenza in early childhood] Gripp u detei rannego vozrasta.
Moskva, Izd-vo Akademii med. nauk SSSR, 1953. 82 p. (MLRA 6:11)
(Influenza) (Children--Diseases)

ZAKSTEL'SKAYA, L.Ya.; RITOVA, V.V.; CHUMAKOV, M.P., chlen-korrespondent Akademii meditsinskikh nauk, direktor.

Adaptation of the influenza virus in human tissue. Zhur.mikrobiol.epid.i immun. no.8:54-58 Ag '53. (MLRA 6:11)

1. Institut virusologii im. D.I.Ivanovskogo Akademii meditsinskikh nauk SSSR.
2. Akademiya meditsinskikh nauk SSSR (for Chumakov). (Influenza)

RITOVA, V.V.

Etiology and epidemiology of acute catarrhs of the upper respiratory tract in infants; author's abstract. Zhur.mikrobiol.epid.i immun. no.3:38 Mr '54. (MLRA 7:4)

1. Iz Instituta virusologii im. D.I.Ivanovskogo Akademii meditsinskikh nauk SSSR (direktor - professor M.P.Chumakov).
(Catarrh) (Infants--Diseases)

USSR/Medicine - Virus Influenza

RITOVA, V. V.

FD 155

Card 1/1

Author : Ritova, V. V. and Zakstel'skaya, L. Ya.

Title : The perfection of methods for preparing vaccine strains of A¹ and B influenza virus.

Periodical : Zhur. mikrobiol. epid. i immun. 5, 55-61, May 1954

Abstract : Investigations of the A, A¹, and B strains of the influenza virus showed that freshly isolated strains adapted well to the conditions present in the mucous membranes of the upper respiratory tract in humans, while laboratory strains grown in chick embryos or in the bodies of white mice did not. A successful method of growing vaccine strains in embryonic human lung tissue and a new strain, A¹ TChE₆, which is especially adapted to this method are described. The results of investigations of the immunological characteristics of the various strains are presented on 5 charts and a graph. Reference is made to a previous article by the authors in Zhur. mikrobiol. epid. i immun., 8, 1953.

Institution : The Institute of Virology imeni D. I. Ivanovskiy, Academy of Medical Sciences, USSR

Submitted : November 2, 1953

RITOVA, V.V.; ZAKSTEL'SKAYA, L.Ya.

Modification of antigenic structure of influenza virus Δ and Δ_1
during five years. Zhur.mikrobiol.epid. i immun. no.9:43-49 S '54.
(MLRA 7:12)

1. Iz Instituta virusologii AMN SSSR (dir. prof. R.N.Kosyakov).
(INFLUENZA VIRUSES,
 Δ & Δ_1 , antigenic changes during 5 years)

ZARSTEL'SKAYA, L.Ya.; RITOVA, V.V.

Type specificity of serological reactions in influenza. Zhur.
mikrobiol. epid. i immun. no.9:49-56 S '54. (MLBA 7:12)

1. Iz otdela grippa (zav. prof. V.M.Zhdanov) Instituta virusologii
imeni D.I.Ivanovskogo AMN SSSR (dir. prof. P.N.Kosyakov).
(INFLUENZA, immunology,
specificity of serol. reactions)

ZAKSTEL'SKAYA, L.Ya.; RITOVA, V.V.

Characteristics of influenza virus B cultured under laboratory conditions. Biul.eksp.biol. i med. 37 no.5:61-55 My '54.

(MLRA 7:7)

1. Iz otdela grippa (zav. chlen-korrespondent AMN SSSR prof. V.M.Zhdanov) Instituta virusologii (dir. chlen-korrespondent AMN SSSR prof. M.P.Chumakov) AMN SSSR.

(INFLUENZA VIRUSES, culture,

*characteristics of cultured viruses)

RITOVA, V. V.

RITOVA, V. V. -- "Grippe Affecting Young Children (Etiology, Epidemiology, and Specific Prophylactic)." Acad Med Sci USSR, Moscow, 1956. (Dissertation for the Degree of Doctor of Medical Sciences)

SO: Knishnaya Letopis' No 43, October 1956, Moscow

USSR/Virology - Human and Animal Viruses.

E-2

Abs Jour : Ref Zhur - Biologiya, No 1, 1957, 402.

Author : V.V. Ritova, A.F. Stefanskaya, A.V. Orlova, and A.P. Markina.

Inst :

Title : Influenza Virus Type C in Children

Orig Pub : Vopr. virusologii, 1956, No 1, 35-38

Abst : An investigation of an outbreak of influenza type C in a children's home was conducted in February-March 1955. Vaccination of the Children with mixed vaccine A, A¹, and B carried out four months before the outbreak, proved to be ineffective. The outbreak of influenza type C clinically does not differ from outbreaks of type A, A¹, and B. A test of sera of convalescents from virus type C which were received at the end of the outbreak from abroad revealed the presence of antibodies to virus C. In sera of children from another children's home

Card 1/2

RITOVA, V.V.; STEFANSKAYA, A.F.; BOGOMOLOVA, N.N.; KIRILLOVA, P.M.

Specific prophylaxis of influenza in infants. Vop.virus. 1 no.4:
30-33 J1-Ag '56. (MLRA 10:1)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
 (INFLUENZA, prevention and control,
 vacc. in Russia (Rus))
 (VACCINES AND VACCINATION,
 influenza vacc. in Russia (Rus))

Reference
ZHDANOFF, V.M.; RITOVA, V.V.; GOLYGINA, L.A.

Influenza ~~D~~ in early infancy. Acta virol. Engl. Ed. Praha 1 no.3-4:
216-219 July-Dec 57.

1. Institute of Virology, Academy of Medical Sciences of the U.S.S.R.,
Moscow.

(INFLUENZA, in inf. & child
influenza D in young inf. in Moscow)

ZHDANOV, V.M.; RITOVA, V.V.; GOLYGINA, L.A.

Influenza "D" in infants [with summary in English]. Vop.virus. 2
no.4:243-247 J1-Ag '57. (MIRA 10:12)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
(INFLUENZA, in infant and child,
in Russia (Rus))

ZHDANOV, V., prof.; RITOVA, V., doktor med.nauk

How to prevent outbreaks of grippe. Okhr.truda i sots.strakh. no.4:
62-65 0 '58. (MIRA 12:1)

1. Chlen-korrespondent akademii meditsinskikh nauk SSSR (for Zhdanov).
(INFLUENZA)

USSR / Virology. Human and Animal Viruses. Influenza Virus. E-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 81234

Authors : Zhdanov, V. M.; Ritova, V. V.

Inst : Not given

Title : Etiology of Influenza in Children.

Orig Pub : Vopr. okhrany materinstva i detstva, 1958, 3, No. 2, 41-45.

Abstract : This is a general review of the course of influenza infection in children, of the epidemiology, clinical treatment and virological diagnosis of the disease. The data presented are based on observations by the authors of more than 5,000 children ranging in age from several months to 7 years.

Card 1/1

8

USSR/Virology. Human and Animal Viruses. Grippe Virus E

Abs Jour : Ref Zhur - Biol., No 4, 1959, No 14645

Author : Sukhareva M.Ye. Ritova V.V., Shapiro S.L.

Inst : -

Title : The Particularities of the Course of the Grippe in Children During the Pandemic of 1957.

Orig Pub : Vopr. okhrany materinstva i detstva, 1958, 3, No 2, 46-52.

Abstract : No abstract

Card : 1/1

RITOVA, V.V. (Moskva)

~~Etiological characteristics of the epidemiological outbreak of influenza~~
in 1957. Klin.med. 36 no.5:56-62 My '58 (MIRA 11:7)

1. Iz Instituta virusologii imeni D.I. Ivanovskogo AMN SSSR.
(INFLUENZA, epidemiology
in Russia (Rus))

BAYANDINA, S.A., kand.med.nauk; SVETLOVA, A.K., kand.med.nauk; RITOVA,
V.V., doktor med. nauk

Clinical features of influenza A₂ in infants [with summary in English]. *Pediatrics* 36 no.12:38-43 D '58. (MIRA 12:1)

1. Iz kliniki detskikh bolezney I Moskovskogo meditsinskogo instituta imeni I.M. Sechenova (dir. - deystvitel'nyy chlen AMN SSSR prof. Yu. F. Dombrovskaya) i Instituta virusologii AMN SSSR (dir. - prof. P.N. Kostyakov).

(INFLUENZA, in inf. & child
A₂, clin. manifest. (Rus))

SUKHAREVA, M.Ye.; DERECHINSKAYA, Sh.L.; RITOVA, V.V.

Problem of recurrent phases of virus influenza in children [with summary in English]. *Pediatrics* 36 no.12:43-48 D '58.

(MIRA 12:1)

1. Iz infektsionnogo otdela kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR prof. G.M. Speranskiy) Tsentral'nogo insituta usovershenstvovaniya vrachey, infektsionnogo otdela Instituta pediatrii AMN SSSR (zav. - chlen-korrespondent AMN SSSR prof. A.I. Dobrokhotova [deceased]), Instituta virusologii AMN SSSR na baze Detskoy klinicheskoy bol'nitsy No.2 im. I.V. Rusakova (glavnyy vrach - zasluzhennyy vrach RSFSR V.A. Kruzhkov).

(INFLUENZA, in inf. & child
recur. phases (Rus))

ZHDANOV, V.M.; RITOVA, V.V.

Evaluation of the effectiveness of live influenza vaccines.
J.hyg.epidem., Praha 3 no.4:472-479 1959.

1. Ivanovsky Institute of Virology, Academy of Medical Sciences
of the U.S.S.R., Moscow.
(INFLUENZA prev.& control)
(VACCINATION)

ZHDANOV, V.M.; RITOVA, V.V.; ORLOVA, A.V.; SOKOLOVA, N.N.; GOLYGINA, L.A.

Characteristics of strains of influenza viruses isolated during 1957.
Cop. virus 4 no.1:19-23 Ja-F '59. (MIRA 12:4)

1. Institut virusologii AMN SSSR, Moskva.
(INFLUENZA VIRUSES,
Russian strains isolated in 1957 (Rus))

STEFANSKAYA, A.F.; RITOVA, V.V.

Clinical and laboratory observations on A₂ influenza in young children. Vop.okh.mat. i det. 4 no.3:28-32 My-Je '59.

(MIRA 12:8)

1. Iz Instituta pediatrii (dir. - chlen-korrespondent AMN SSSR prof.O.D.Sokolova-Ponomareva) AMN SSSR i Instituta virusologii (dir. - prof.P.N.Kosyakov) AMN SSSR.

(INFLUENZA)

RITOVA, V. V.

Bull. Org. mond. Sant. 1959, 20, 241-249
Bull. 10-10-1959

6, 8, 111
6, 4, 21

QUELQUES PARTICULARITÉS CLINIQUES ET SÉROLOGIQUES DE LA GRIPPE EN 1957-58 CHEZ DES ENFANTS

PANISOVA V. M. IDANOV

Directeur du Centre de la Grippe

Dr V. V. RITOVA

Chef du Laboratoire de Pathologie Infectieuse de la Grippe
Institut de Virologie, Moscou, U.R.S.S.

RÉSUMÉ

Les auteurs ont étudié 112 enfants de virus A/Asie 57 isolés au cours de la même pandémie de grippe. Ils ont noté que chez ces enfants d'origine d'Asie. Ces enfants présentaient une faible puissance hémagglutinante, un virus présent en très petite quantité, à un titre élevé, d'anticorps neutralisants et faibles du complément. L'évolution de la maladie a été caractérisée chez des enfants. Elle s'est développée en deux phases. Le virus a été trouvé chez certains sujets jusqu'à 17 ou 18 jours. La première phase correspond à la multiplication du virus dans les voies respiratoires supérieures. La seconde à la propagation du virus vers le système circulatoire par voie hémotogène. La neutralisation du virus dans le sang par virus A, expliquant pourquoi la seconde phase ne s'observe que rarement chez les adultes et pourquoi le traitement des enfants par le virus inactivé a amélioré le pronostic et souvent conduit à la guérison.

La récente épidémie de grippe a attiré l'attention non seulement par la forte morbidité qu'elle a causée (Harmon, 1958), mais aussi par les particularités biologiques qui distinguent le virus A/Asie 57 de ceux qui avaient provoqué les épidémies précédentes (Meyer et al. 1957, Idanov et al. 1958). On sait que la primo-infection grippale détermine chez les enfants d'âge préscolaire des manifestations cliniques pathogéniques et immunologiques particulières (Ritova 1956). Il nous a paru intéressant d'étudier ces manifestations au cours de la pandémie 1957-58.

* Bulletin of the World Health Organization, Vol. 20, No. 2-3, 1959.
(Study devoted to Influenza)

ZHDANOV, V.M.; RITOVA, V.V. (Moskva)

Pathogenesis of influenza. Klin.med. 37 no.12:45-48 D '59.
(MIRA 13:4)

1. Iz Instituta virusologii AMN SSSR (direktor - prof. P.N.
Kosyakov).
(INFLUENZA)

RITOVA, V.V.; YEVSTIGNEYEVA, N.A.

Vaccinal strains of influenza viruses. Vop. virus. 5 no. 2:172-
178 My-S '60. (MIRA 14:4)

1. Institut virusologii imeni D.I. Ivanovskogo, Moskva.
(INFLUENZA)

SUKHAREVA, M.Ye.; RITOVA, V.V.

Problem of influenza in children. Vop.okh.mat.i det. 5 no.3:
7-12 My-Je '60. (MIRA 13:7)

1. Iz infektsionnogo otdela kafedry pediatrii (zav. - deyst-
vitel'nyy chlen AMN SSSR prof. G.N. Speranskiy) Tsentral'nogo
instituta usovershenstvovaniya vrachey i Instituta virusologii
imeni D.I. Ivanovskogo (dir. - prof. P.N. Kasyakov) na baze
bol'nitsy imeni I.V. Rusakova (glavnyy vrach - zasluzhennyy
vrach RSFSR V.A. Kruzhkov).
(INFLUENZA)

RITOVA, V.V., YEVSTIGNEYEVA, N.A.

"Live tissue vaccine against influenza."

Report submitted for the 1st Intl. Congress on Respiratory Tract Diseases of
Virus and Rickettsial Origin. Prague, Czech. 23-27 May 1961

SVETLOVA, A.K., kand.med.nauk; BAYANDINA, S.A., kand.med.nauk;
RITOVA, V.V., doktor med.nauk

Clinical virological characteristics of recurrent waves of
influenza in infants. *Pediatrics* 39 no.4:37-41 Ap '61. (MIRA 14:4)

1. Iz kliniki detskikh bolezney I Moskovskogo meditsinskogo insti-
tuta imeni I.M. Sechenova (dir. - deystvitel'nyy chlen AMN SSSR
prof. Yu.F. Dombrovskaya) i Instituta virusologii AMN SSSR (dir. -
prof. P.N. Kostyakov).

(INFLUENZA)

1. 5. (MIRA 18:10)

[illegible]

RIDV, V.V.

Effect of specific immune serum in influenza therapy and in
toxins. Vop.med.virus. no.8:62-67 1963.

(MIRA 17:70)

RITOVA, V.V.; ZHUKOVSKY, A.M. [Zhukovskiy, A.M.]; YEVSTIGNEYEVA, N.A.

Comparative study of the immunological properties of live
influenza vaccine in volunteers. J.hyg.epidem. 7 no.3:272-280
'63.

1. Ivanovsly Institute of Virology, Academy of Medical Sciences
of the U.S.S.R., Moscow.

*

RITOVA, V.V.

New factors of immunity of A2 influenza ("imperfect" antibodies).
Acta virol. 7 no.2:176-181 Mr '63.

1. D.I. Ivanovsky Institute of Virology, U.S.S.R. Academy of Medical
Sciences, Moscow.

(INFLUENZA)

(IMMUNITY)
(ANTIBODIES)

(HEMAGGLUTINATION INHIBITION TESTS)

ZHDANOV, V.M.; RITOVA, V.V.

Seasonal ~~fluctuations~~ in the reactivity to live influenza
vaccines. Vest. AMN SSSR 17 no.2:3-9 '62. (MIRA 15:3)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR,
Moskva.

(INFLUENZA--MICROBIOLOGY) ~~RESEARCH~~ (VACCINES)
(WEATHER--MENTAL AND PHYSIOLOGICAL ~~EFFECTS~~)

SUKHAREVA, M.Ye.; RITOVA, V.V.; ZLATKOVSKAYA, N.M.

Pathogenesis of nervous disorders in influenza in children.
Zhur. nevr. i psikh. 61 no.7:1065-1070 '61. (MIRA 15:6)

1. Infektsionnoye otdelneiye kafedry pediatrii (zav. - prof.
G.N. Speranskiy) Tsentral'nogo instituta usovershenstvovaniya
vrachey i Institut virusologii imeni Ivanovskogo (dir. P.N.
Kosyakov), Moskva.

(INFLUENZA)
(NERVOUS SYSTEM—DISEASES)

RITOVA, V.V.; ZHDANOV, V.M. (Moskva)

Method for serotherapy in influenza. Klin.med. 40 no.5:117-
122 '62. (MIRA 15:8)

1. Iz Instituta virusologii imeni D.I. Ivanovskogo AMN SSSR.
(INFLUENZA) (SERUM THERAPY)

RITS, A.A.

X-ray study of the "stomach" created from the jejunum after
gastroectomy for cancer. Vest. rent. i rad. 37 no.2:65-67 Mr-Ap
'62. (MIRA 15:4)

1. Iz 2-y kafedry rentgenologii i meditsinskoy radiologii (zav. -
prof. Yu.N.Sokolov) Tsentral'nogo instituta usovershenstvovaniya
vrachey (dir. M.D.Kovrigina) i gosptal'noy khirurgicheskoy kliniki
(zav. - prof. I.L.Bregadze) Novosibirskogo meditsinskogo instituta
na baze oblastnoy klinicheskoy bol'nitsy (glavnyy vrach -
zasluzhennyy vrach RSFSR Z.A.Kireyeva);

(STOMACH--RADIOGRAPHY) (STOMACH--CANCER)
(JEJUNUM--TRANSPLANTATION)

NEKHLIUDOV, Yakov Isaakovich; KOZHEUROV, Petr Il'ich; RITS,
Boris Abramovich; SVET, Ye.B., red.

[Casting high-strength cast iron crankshafts in permanent molds] Otlivka kolenchatykh valov iz vysokoprochnogo chuguna v kokil'. Cheliabinsk, Iuzhno-Ural'skoe knizhnoe izd-vo, 1964. 47 p. (MIRA 18:5)

RETS, I.A. (Novosibirsk, 7, Kalmukaya ul., 199, 8)

Cancer of the stomach in a patient with total situs viscerum
inversus totalis. Vop. onk. 10 no.1:99-100 '64.

(MIRA 17:11)

1. Iz Novosibirskoy oblastnoy klinicheskoy bol'nitsy (glavnyy
vrach - zasluzhennyy vrach RSFSR - Z.A. Kireyeva).

RITS, I.A., kand. med. nauk; VERONSKIY, G.I. (Novosibirsk, ul. Lermontova, 45,
kv. 70)

Prolapse of gastric polyp into the duodenum. Vest. khir. 92 no.1:
82-83 Ja '64. (MIRA 17:11)

1. Iz gosital'noy khirurgicheskoy kliniki (zav. - dotsent B.A.
Vitsyn) Novosibirskogo meditsinskogo instituta i oblastnoy klini-
cheskoy bol'nitsy (glavnyy vrach - nasluzhennyy vrach RSFSR Z.A.
Kireyeva).

RITS, I.A., kand.med.nauk (Novosibirsk, 7, ul. Kainskaya, d. 11, kv. 7)

Benign tumors of the stomach and their X-ray diagnosis. Klin.
khir. no. 7:21-23 J1 '62. (MIRA 15:9)

1. Onkologicheskoye otdeleniye Novosibirskoy oblastnoy kliniche-
skoy bol'nitsy.
(STOMACH--TUMORS) (DIAGNOSIS, RADIOSCOPIC)

RITS, I.A., kand. med. nauk, (Novosibirsk, Kannskaya ul., d. 11, kv.7)
KOSTYSHEVA, S.N.

Gastric tuberculosis. Vestn. khir. Grekov. 90 no.4:91-92 Ap'63
(MIRA 17:2)

1. Iz Novosibirskoy oblastnoy klinicheskoy bol'nitsy (glavnyy
vrach - zasluzhennyy vrach RSFSR Z.A. Kireyeva).

RITS, I.A.

Roentgenological study of a portion of the jejunum used to
replase an excised stomach. Khirurgiia no.12:50-54 '61.
(MIRA 15:11)

1. Iz 2-y kafedry rentgenologii i meditsinskoy radiologii
(zav. - prof. Yu.N. Sokolov) Tsentral'nogo instituta usover-
shenstvovaniya vrachey i gospiatal'noy khirurgicheskoy kliniki
(zav. - prof. I.L. Bregadze) Novosibirskogo meditsinskogo
instituta na baze Ok'astnoy klinicheskoy bol'nitsy (glavnyy
vrach - zasluzhennyy vrach RSFSR Z.A. Kireyeva).
(~~JEJUNUM~~-TRANSPLANTATION) (~~STOMACH~~-SURGERY)

RITS, I.A.; YUDAYEV, Yu.I.

Motor-evacuation function of the "artificial stomach" and small
intestine. Vest.khim. 84 no.3:61-63 Mr '60. (MIRA 13:12)
(STOMACH) (INTESTINES)

RITS, I.A. →

Comparative data on the motor-evacuation of the small intestine after gastrectomy and resection of the stomach and replacement with small intestine. Khirurgiia 36 no.2:11-16 F '60. (MIRA 13:12)

(STOMACH—SURGERY) (INTESTINES) (JEJUNUM—SURGERY)

RITS, I. A. Cand Med Sci -- "Morphology and function of an artificial stomach."
(Clinical X-ray study)." Mos, 1961 (State Sci Res X-Ray Radiological Inst *of the*
Min of Health RSFSR). (KL, 4-61, 211)

-374-

RITS, I. A.

Motility of the small intestine in patients with artificial stomachs under the influence of food loading. Terap. arkh. 33 no.5:73-76
My '61. (MIRA 14:12)

1. Iz 2-y kafedry rentgenologii i meditsinskoy radiologii (zav. - prof. Yu. N. Sokolov) Tsentral'nogo instituta usovershenstvovaniya vrachey i Novosibirskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach RSFSR Z. A. Kireyeva).

(GASTROINTESTINAL MOTILITY)
(STOMACH--SURGERY)

BESPYATOV, M.P., kandtekh.nauk; MITIS, O.V., inzh.; VOYEVODINA, M.V.,
inzh.; OVCHARENKO, V.Ye., inzh.

Analysis of a soap after a long saponification.
Masl.-shir. prom. 27 no. 3:17-19 '61. (HFA 14:2)

1. Kharkovskiy politekhnicheskiy institut imeni V.I. Lenina
(for Bespyatov, Mitis, Voyevodina). 2. Ukrainskiy nauchno-
issledovatel'skiy institut masloshirovoy promyshlennosti
(for Ovcharenko).

(Soap)

L 63986-65 EWP(e)/EWP(1) WH

ACCESSION NR: AP5020662

GE/0027/64/006/012/0937/0938

AUTHOR: Ritschl, R.; Glas, P.; Schwider, J.

TITLE: Selective reflection and dispersion characteristics of ruby at the red ruby lines

SOURCE: Akademie der Wissenschaften, Berlin. Monatsberichte, v. 6, no. 12, 1964, 937-938

TOPIC TAGS: light reflection, fromium, ion, light dispersion

ABSTRACT: The article reports on the selective maximum of monochromatic light reflection at the wavelength of the red resonance doublet of the Cr+++ ions in corundum. The photocurrent characteristic as function of temperature and the MACH-ZEHNDER interferences in a continuous spectrum are shown. Orig. art. has 1 figure and 1 graph.

ASSOCIATION: Institut fur Optik und Spektroskopie der Dt. Akad. Wiss., Forschungsgemeinschaft (Research Group, Institute of Optics and Spectroscopy at the German Academy of Sciences)

SUBMITTED: 22Jul64

NO REF SOV: 000

Card 1/1 dm

ENCL: 00

OTHER: 000

SUB CODE: OP

JPRS

L 61662-65 EWA(k)/FBD/EWG(r)/EWI(1)/EWP(e)/EEC(k)-2/EWP(i)/EEC(t)/T/EEC(b)-2/
EWP(k)/EWA(m)-2/EWA(h) Pm-4/Pn-4/Po-4/Pq-4/Pf-4/Peb/Pi-4/Pl-4 SCTB/IJP(c)

WG/WH

ACCESSION NR: AP5011139

UR/0051/65/018/004/0733/0735

535.32

AUTHORS: Ritschl, R. (Ritschl, R.); Glas, P.;
Shvider (Schwider), I.

TITLE: Selective reflection and the form of dispersion near
the red lines of ruby

SOURCE: Optika i spektroskopiya, v. 18, no. 4, 1965, 733-735

TOPIC TAGS: ruby laser, emission line, selective reflection, co-
herent reflection, optical interference

ABSTRACT: This is a sequel to an earlier effort by one of the
authors (Ritschl, Scientific Journal of Humboldt University,
supplement to the jubilee issue, v. 9, 91, 1959/60) to observe
selective reflection in ruby crystals close to the red ruby lines.
While the earlier attempt failed, recently, using a ruby laser
as a light source and very small line width, which could be shifted
within definite limits by changing the temperature of the laser
crystal, the authors successfully observed selective reflection.

Card 1/3

L 61662-65

ACCESSION NR: AP5011139

The ruby temperature could be varied from -10 to -1500 using liquid air. In this case the wave length of the laser emission varied from 694.0 to 693.4 nm. The light beam from the laser was split into two rays, one reflected from an impurity-free corundum crystal, and the other reflected from a ruby crystal. The reflecting ruby was kept at constant temperature (-85C). The difference between the measured intensities of the rays reflected from the ruby and from the crystal revealed selective reflection from the ruby close to the point corresponding to equal temperatures of the ruby laser and ruby reflector. An auxiliary experiment showed that a high intensity of laser emission is not essential for observation of the phenomenon. To prove that the light observed in selective reflection is coherent, the reflecting crystal was rotated slightly with respect to the position in which light reflected at the reflection angle fell on the photocell. It is concluded that at the resonance wavelength, the Cr^{3+} ions in the ruby cause the reflection coefficient and refractive index to behave in the manner expected for resonators

Card 2/3

L 61662-65

ACCESSION NR: AP5011139

that oscillate coherently with the incident wave. Original
article has: 5 figures

ASSOCIATION: Institute of Optics and Spectroscopy, Berlin-
Adlershof (East Germany)

SUBMITTED: 15Sep64 ENCL: 00 SUB CODE: OP

NR REF SOV: 001 OTHER: 000

llc
Card 3/3

RITSCHEL, R.

Timely problems of atom spectroscopy. Tr. from the German. n. 253

Vol. 16, no. 2/4, 1955

KOZLEFENYEI

SOURCE: Monthly list of East European Accessions, (EFAL), LC,
Vol. 5, No. 3, March, 1956

BESFYATOV, M.P., kand.tekhn.nauk; VOYEVODINA, M.V., inzh.; RITS, O.V.

"Alcohol error" in the determination of sodium carbonate in
cleaning compounds. Masl.-zhir.prom. 26 no.6:25-26 Je '60.
(MIRA 13:6)

1. Khar'kovskiy politekhnicheskii institut imeni V.I.Lenina.
(Cleaning compounds) (Sodium carbonate)

CA

PROCESSES AND PROPERTIES INDEX

3

Recent advances in methods for investigating atomic and ionic beams. Rudolph Ritschl. *Physik. Z.* 38, 141-57(1937).—A review with 107 references. J. B. A.

COMMON ELEMENTS

COMMON VARIABLES INDEX

AS A S L A METALLURGICAL LITERATURE CLASSIFICATION

1934-1944

1945-1954

1955-1964

1965-1974

1975-1984

1985-1994

1995-2004

2005-2014

2015-2024

2025-2034

2035-2044

2045-2054

2055-2064

2065-2074

2075-2084

2085-2094

2095-2104

2105-2114

2115-2124

2125-2134

2135-2144

2145-2154

2155-2164

2165-2174

2175-2184

2185-2194

2195-2204

2205-2214

2215-2224

2225-2234

2235-2244

2245-2254

2255-2264

2265-2274

2275-2284

2285-2294

2295-2304

2305-2314

2315-2324

2325-2334

2335-2344

2345-2354

2355-2364

2365-2374

2375-2384

2385-2394

2395-2404

2405-2414

2415-2424

2425-2434

2435-2444

2445-2454

2455-2464

2465-2474

2475-2484

2485-2494

2495-2504

2505-2514

2515-2524

2525-2534

2535-2544

2545-2554

2555-2564

2565-2574

2575-2584

2585-2594

2595-2604

2605-2614

2615-2624

2625-2634

2635-2644

2645-2654

2655-2664

2665-2674

2675-2684

2685-2694

2695-2704

2705-2714

2715-2724

2725-2734

2735-2744

2745-2754

2755-2764

2765-2774

2775-2784

2785-2794

2795-2804

2805-2814

2815-2824

2825-2834

2835-2844

2845-2854

2855-2864

2865-2874

2875-2884

2885-2894

2895-2904

2905-2914

2915-2924

2925-2934

2935-2944

2945-2954

2955-2964

2965-2974

2975-2984

2985-2994

2995-3004

3005-3014

3015-3024

3025-3034

3035-3044

3045-3054

3055-3064

3065-3074

3075-3084

3085-3094

3095-3104

3105-3114

3115-3124

3125-3134

3135-3144

3145-3154

3155-3164

3165-3174

3175-3184

3185-3194

3195-3204

3205-3214

3215-3224

3225-3234

3235-3244

3245-3254

3255-3264

3265-3274

3275-3284

3285-3294

3295-3304

3305-3314

3315-3324

3325-3334

3335-3344

3345-3354

3355-3364

3365-3374

3375-3384

3385-3394

3395-3404

3405-3414

3415-3424

3425-3434

3435-3444

3445-3454

3455-3464

3465-3474

3475-3484

3485-3494

3495-3504

3505-3514

3515-3524

3525-3534

3535-3544

3545-3554

3555-3564

3565-3574

3575-3584

3585-3594

3595-3604

3605-3614

3615-3624

3625-3634

3635-3644

3645-3654

3655-3664

3665-3674

3675-3684

3685-3694

3695-3704

3705-3714

3715-3724

3725-3734

3735-3744

3745-3754

3755-3764

3765-3774

3775-3784

3785-3794

3795-3804

3805-3814

3815-3824

3825-3834

3835-3844

3845-3854

3855-3864

3865-3874

3875-3884

3885-3894

3895-3904

3905-3914

3915-3924

3925-3934

3935-3944

3945-3954

3955-3964

3965-3974

3975-3984

3985-3994

3995-4004

4005-4014

4015-4024

4025-4034

4035-4044

4045-4054

4055-4064

4065-4074

4075-4084

4085-4094

4095-4104

4105-4114

4115-4124

4125-4134

4135-4144

4145-4154

4155-4164

4165-4174

4175-4184

4185-4194

4195-4204

4205-4214

4215-4224

4225-4234

4235-4244

4245-4254

4255-4264

4265-4274

4275-4284

4285-4294

4295-4304

4305-4314

4315-4324

4325-4334

4335-4344

4345-4354

4355-4364

4365-4374

4375-4384

4385-4394

4395-4404

4405-4414

4415-4424

4425-4434

4435-4444

4445-4454

4455-4464

4465-4474

4475-4484

4485-4494

4495-4504

4505-4514

4515-4524

4525-4534

4535-4544

4545-4554

4555-4564

4565-4574

4575-4584

4585-4594

4595-4604

4605-4614

4615-4624

4625-4634

4635-4644

4645-4654

4655-4664

4665-4674

4675-4684

4685-4694

4695-4704

4705-4714

4715-4724

4725-4734

4735-4744

4745-4754

4755-4764

4765-4774

4775-4784

4785-4794

4795-4804

4805-4814

4815-4824

4825-4834

4835-4844

4845-4854

4855-4864

4865-4874

4875-4884

4885-4894

4895-4904

4905-4914

4915-4924

4925-4934

4935-4944

4945-4954

4955-4964

4965-4974

4975-4984

4985-4994

4995-5004

5005-5014

5015-5024

5025-5034

5035-5044

5045-5054

5055-5064

5065-5074

5075-5084

5085-5094

5095-5104

5105-5114

5115-5124

5125-5134

5135-5144

5145-5154

5155-5164

5165-5174

5175-5184

5185-5194

5195-5204

5205-5214

5215-5224

5225-5234

5235-5244

5245-5254

5255-5264

5265-5274

5275-5284

5285-5294

5295-5304

5305-5314

5315-5324

5325-5334

5335-5344

5345-5354

5355-5364

5365-5374

5375-5384

5385-5394

5395-5404

5405-5414

5415-5424

5425-5434

5435-5444

5445-5454

5455-5464

5465-5474

5475-5484

5485-5494

5495-5504

5505-5514

5515-5524

5525-5534

5535-5544

5545-5554

5555-5564

5565-5574

5575-5584

5585-5594

5595-5604

5605-5614

5615-5624

5625-5634

5635-5644

5645-5654

5655-5664

5665-5674

5675-5684

5685-5694

5695-5704

5705-5714

5715-5724

5725-5734

5735-5744

5745-5754

5755-5764

5765-5774

5775-5784

5785-5794

5795-5804

5805-5814

5815-5824

5825-5834

5835-5844

5845-5854

5855-5864

5865-5874

5875-5884

5885-5894

5895-5904

5905-5914

5915-5924

5925-5934

5935-5944

5945-5954

5955-5964

5965-5974

5975-5984

5985-5994

5995-6004

6005-6014

6015-6024

6025-6034

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6065-6074

6075-6084

6085-6094

6095-6104

6105-6114

6115-6124

6125-6134

6135-6144

6145-6154

6155-6164

6165-6174

6175-6184

6185-6194

6195-6204

6205-6214

6215-6224

6225-6234

6235-6244

6245-6254

6255-6264

6265-6274

6275-6284

6285-6294

6295-6304

6305-6314

6315-6324

6325-6334

6335-6344

6345-6354

6355-6364

6365-6374

6375-6384

6385-6394

6395-6404

6405-6414

6415-6424

6425-6434

6435-6444

6445-6454

6455-6464

6465-6474

6475-6484

6485-6494

6495-6504

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6515-6524

6525-6534

6535-6544

6545-6554

6555-6564

6565-6574

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6585-6594

6595-6604

6605-6614

6615-6624

6625-6634

6635-6644

6645-6654

6655-6664

6665-6674

6675-6684

6685-6694

6695-6704

6705-6714

6715-6724

6725-6734

6735-6744

6745-6754

6755-6764

6765-6774

6775-6784

6785-6794

6795-6804

6805-6814

6815-6824

6825-6834

6835-6844

6845-6854

6855-6864

6865-6874

6875-6884

6885-6894

6895-6904

6905-6914

6915-6924

6925-6934

6935-6944

6945-6954

6955-6964

6965-6974

6975-6984

6985-6994

6995-7004

7005-7014

7015-7024

7025-7034

7035-7044

7045-7054

7055-7064

7065-7074

7075-7084

7085-7094

7095-7104

7105-7114

7115-7124

7125-7134

7135-7144

7145-7154

7155-7164

7165-7174

7175-7184

7185-7194

7195-7204

7205-7214

7215-7224

7225-7234

7235-7244

7245-7254

7255-7264

7265-7274

7275-7284

7285-7294

7295-7304

7305-7314

7315-7324

7325-7334

7335-7344

7345-7354

7355-7364

7365-7374

7375-7384

7385-7394

7395-7404

7405-7414

7415-7424

7425-7434

7435-7444

7445-7454

7455-7464

7465-7474

7475-7484

7485-7494

7495-7504

7505-7514

7515-7524

7525-7534

7535-7544

7545-7554

7555-7564

7565-7574

7575-7584

7585-7594

7595-7604

7605-7614

7615-7624

7625-7634

7635-7644

7645-7654

7655-7664

7665-7674

7675-7684

7685-7694

7695-7704

7705-7714

7715-7724

7725-7734

7735-7744

7745-7754

7755-7764

7765-7774

7775-7784

7785-7794

7795-7804

7805-7814

7815-7824

7825-7834

7835-7844

7845-7854

7855-7864

7865-7874

7875-7884

7885-7894

7895-7904

7905-7914

7915-7924

7925-7934

7935-7944

7945-7954

7955-7964

7965-7974

7975-7984

7985-7994

7995-8004

8005-8014

8015-8024

8025-8034

8035-8044

8045-8054

8055-8064

8065-8074

8075-8084

8085-8094

8095-8104

8105-8114

8115-8124

8125-8134

8135-8144

8145-8154

8155-8164

8165-8174

8175-8184

8185-8194

8195-8204

8205-8214

8215-8224

8225-8234

8235-8244

8245-8254

8255-8264

8265-8274

8275-8284

8285-8294

8295-8304

8305-8314

8315-8324

8325-8334

8335-8344

8345-8354

8355-8364

8365-8374

8375-8384

8385-8394

8395-8404

8405-8414

8415-8424

8425-8434

8435-8444

8445-8454

8455-8464

8465-8474

8475-8484

8485-8494

8495-8504

8505-8514

8515-8524

8525-8534

8535-8544

8545-8554

8555-8564

8565-8574

8575-8584

8585-8594

8595-8604

8605-8614

8615-8624

8625-8634

8635-8644

8645-8654

8655-8664

8665-8674

8675-8684

8685-8694

8695-8704

8705-8714

8715-8724

8725-8734

8735-8744

8745-8754

8755-8764

8765-8774

8775-8784

8785-8794

8795-8804

8805-8814

8815-8824

8825-8834

8835-8844

8845-8854

8855-8864

8865-8874

8875-8884

8885-8894

8895-8904

8905-8914

8915-8924

8925-8934

8935-8944

8945-8954

8955-8964

8965-8974

8975-8984

8985-8994

8995-9004

9005-9014

9015-9024

9025-9034

9035-9044

9045-9054

9055-9064

9065-9074

9075-9084

9085-9094

9095-9104

9105-9114

9115-9124

9125-9134

9135-9144

9145-9154

9155-9164

9165-9174

9175-9184

9185-9194

9195-9204

9205-9214

9215-9224

9225-9234

9235-9244

9245-9254

9255-9264

9265-9274

9275-9284

9285-9294

9295-9304

9305-9314

9315-9324

9325-9334

9335-9344

9345-9354

9355-9364

9365-9374

9375-9384

9385-9394

9395-9404

9405-9414

9415-9424

9425-9434

9435-9444

9445-9454

9455-9464

9465-9474

9475-9484

9485-9494

9495-9504

9505-9514

9515-9524

9525-9534

9535-9544

9545-9554

9555-9564

9565-9574

9575-9584

9585-9594

9595-9604

9605-9614

9615-9624

9625-9634

9635-9644

9645-9654

9655-9664

9665-9674

9675-9684

9685-9694

9695-9704

9705-9714

9715-9724

9725-9734

9735-9744

9745-9754

9755-9764

9765-9774

9775-9784

9785-9794

9795-9804

9805-9814

9815-9824

9825-9834

9835-9844

9845-9854

9855-9864

9865-9874

9875-9884

9885-9894

9895-9904

9905-9914

9915-9924

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9955-9964

9965-9974

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9995-10004

EXCERPTA MEDICA Sec.17 Vol.4/4 Public Health, etc. Apr 58

1152. SPECIFIC PROPHYLAXIS AGAINST INFLUENZA IN VERY YOUNG CHILDREN (Russian text) - Ritova E. V., Stefanskaya A. F., Bogomolova N. N. and Kirillova F. M. - VOP. VIRUS. 1956, 4 (30-33)

Observations were carried out on 7,000 children from 50 children's establishments in Moscow; 60% of these healthy children were given the vaccine in doses found by the authors to be optimal (1:2000-3000 for children up to 1.5 yr. of age; 1:1000 for older children) by single introduction of 0.5 ml. intranasally. Over the period of observation (7 months, from October 1954 to April 1955) 24.2% of the vaccinated children developed influenza or catarrh of the upper respiratory tract, whilst in the control group the incidence was 58.8%. The incidence of viral influenza among the vaccinated group was 4 times lower than in the control group. Children show a greater reaction to vaccination than adults (5% against 1%). (S)

YUDAYEV, Yu.I.; RETS, I.S.; RETS, I.S., G.I.

Comparative data on the replacement of the stomach by the small
and large intestine following gastrectomy. Klin. khir. no.3:33-
37 '65. (MIRA 18:6)

1. Kafedra gosital'noy khirurgii (zav. - dotsent B.A.Vitsyn)
Novosibirskogo meditsinskogo instituta.

RITS, I.A.

Changes in the position and function of the esophagus in severe forms of scoliosis. Vest. khir. no. 6:42-47 '65.

(MIRA 18:12)

1. Iz rentgeno-radiologicheskogo otdeleniya (zav. - kand. med. nauk I.A. Rits) Novosibirskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii.

RITS, I.A., kand. med. nauk

Food reflex in patients with an artificial stomach and
direct esophagointestinal anastomoses. Vest. rent. i
rad. 39 no.3:22-25 My-Je '64. (MIRA 18:11)

1. Novosibirskaya oblastnaya klinicheskaya bol'nitsa.

RAFL, Jan, inz.; RITSCHL, Evzen, inz.

Jawa 350 motorcycle, type 354/06 . Automobil Cz 7 no.7:198-201
Jl '63.

1. Zavody 9.kvetna-Jawa, Praha.

RITSCHL, Evzen, inz.; RAFL, Jan, inz.

Automatic centrifugal clutches. Automobil Oz 8 no.7:15-20
Jl '64

1. Zavody 9. kvetna - JAMA.

RI 3 HL, 1.

the DAW-Hobby automatic variable gear transmission.

p. 110 (Automobil) Vol. 1, no. 4, Apr. 1957 Praha, Czechoslovakia

SC: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, Jan. 1958

1950-1951, p. 101, 102.

"1951-52 Motorcycle."

412-1571, Praha, Czechoslovakia, Vol. 3, no. 5, May 1959

Monthly List of East European Accessions Index (EMAI), 10, Vol. 3, No. 3,
August 1959

Unclassified

RITSCHL, E.

Road-holding properties of three-track and four-track vehicles.

p. 195 (Automobil) Vol. 1, no. 6, June 1957 Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, Jan. 1958

UTOMIL, Evzen, 1941; 2041, Jan, 1941.

The new front fork of the Jawa motorcycles. Automobil 32 8 m. 9:2-6
3 104.

Jawa national enterprise.

KITLON, avsen, inz., W400, Jan, inz.

The Jawa automatic clutch with centrifugal control. Automobil
Cz 8 no.19:2-8 0 '64.

1. Jawa National Enterprise, Research and Development Plant,
Prague.

RAFL, Jan, inz.; RITSCHL, Evzen, inz.

Engine of the 559/02 type Jawa 250 motorcycle. Automobil Cz 7
no.4:96-98 Ap '63.

1. Zavody 9.kvetna, Jawa, Praha.

RITSCHL, R.

HUNGARY/Optics - Spectroscopy

K-7

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 9339

Author : Ritschl R.

Inst : Not Given

Title : Modern Problems of Atomic Spectroscopy

Orig Pub : Magyar tud. akad. Musz. tud. oszt. kozl., 1955, 16, No 2-4,
353-363;

Abstract : See Referat Zhur Khimia, 1956, No 14, 42266.

Card : 1/1

RITSIK, L.O.

Treatment of uterine erosions by application of amniotic membrane on lesions. Akush. gin. no.6:67-68 Nov-Dec 1953. (CML 25:5)

1. Kherson Combined Hospital-Polyclinic (Head Physician -- Ye. A. Sklyarevskiy), Dneprovsk Basin.

RITSIK, L.O. [Rytsyk, L.O.]

Use of a transverse suture in atonic hemorrhages according to
V.O. Losyts'ka. Ped. akush. i gin. 22 no. 1:38-39 '60.

(MIRA 13:8)

1. Akushersko-ginekologicheskoye otde'leniye kliniki vodnikov
(glavnyy vrach - Ye.A. Sklyarevskiy [IE.A. Skliarevs'ki],
Kherson.

(HEMORRHAGE, UTERINE) (SUTURES)

RITSIK, L.O.

Treatment of uterine erosions by application of amniotic membrane
to lesions. Akush.i gin. no.6:67-68 N-D '53. (MLRA 7:1)

1. Iz Khersonskogo bol'nichno-poliklinicheskogo ob'yedineniya
(glavnyy vrach Ye.A.Sklyarevskiy) Dneprovskogo basseyana.
(Uterus--Diseases) (Amnion)

RITSLAID, J.

"How to secure necessary depth in plowed trenches."

p. 562 (Sotsialistlik Põllumajandus) Vol. 12, no. 12, Dec. 1957
Tallinn, Estonia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

RITSLAND, M.A.; KALINICHENKO, I.I., starshiy tekhnik.

Signal device for motor generator speed control in tone telegraphy.
Vest.sviazi 16 no.1:11 Ja '56. (MLRA 9:5)

1. Starshiy inzhener proizvodstvennoy laboratorii Kiyevskogo
tsentral'nogo telegrafa (for Ritsland).
(Telegraph--Current supply)

GOROKHOVSKIY, Ya.Yu. [Gorokhova'skiy, IA. IU.]; RITSLIN, V.A. [Rytelin,
V.A.]; FRIDMAN, L.A.

Automatic device for flaying and piling of hides. Lab. prom.
no.2:60-61 Ap-Je '64 (MIRA 1967)

RITTO, V.L.; POLI-MEROV, H.R.; LAMDA, E.E.; LERANE, G. YL.

"Glaucinite as a Green Pigment and Its Application in Constructional Colors (Paints)," Izv. AN Est SSR, 2, No 1, 107-121, 1953

The above constitutes the results of an investigation of the glauconite sands of the deposits of Mardu and Lasnamyae (near Tallin, Estonian SSR). In the Mardu deposit the layer of glauconite sands lies at a depth of 6 meters between limestones and dictyonema shales. The authors carry out a chemical analysis of the glauconite and of its physicochemical properties. (RuhGeol, No 1, 1955)

SO: Sum. No. 536, 10 Jun 55

Rits, A.E.

Glaukonite - a green pigment replacement for chromium
oxide. B. K. Landis, O. Yu. Fardane, N. K. Polikarpov,
and A. E. Rits. Khim. Prom. 1953, No. 3, 19-21;
Referat. Zhur., Khim. 1956, Abstr. No. 27281. Glaukonite,
produced from the glaukonite sands from the northern
shores of Estonia, is offered as replacement for the expensive
C oxide and the unstable Zn and Pb green pigments. The
technological process for producing the glaukonite pigment
consists of grinding the mineral and subsequent enrichment
with a magnetic separator. Afterward, the enriched
mineral is ground in a conical ball mill with air sepn. The
pigment can be used in glue and lime paints and partially
in flat gray-green oil paints. The pigment is light-stable
and can be used for outdoor and indoor paints. N V

Distr: 4E4j

1950, 1.

To the title on the further development of the republic's flax industry. p. 41

ETIPI KOGIADNOST. (Etilmas Kommunistlik Partei Koshharibee) Tallinn, Estonia.
Vol. 17, no. 9, Sept. 1950

Monthly List of East European Acquisitions (TMAI) IG, Vol. 3, No. 12, Dec. 1950
Encl.

REF. 1, 2, 3.

1. "The New York Times", 11/2/49 (1949)

RITT, M. A.

Chem Abs

V.48 25 Jan 54

Biological Chem

✓ Skin amylase. M. D. Kiverin and M. A. Ritt. *Bio-khimiya* 18, 257-62 (1953).—The object of the study was to det. the applicability to skin studies of methods used in studies of amylolytic activity of muscles, yeasts, etc., and to det. whether carbohydrates are split in the skin amylolytically or phosphorolytically. Skins of normal adult rabbit and of scorbutic guinea pigs were used. Skins were freed from fur and adipose tissue and prepd. by 2 procedures: (1) the skin was passed through a cold meatgrinder; an equal vol. of cold H₂O added, and mixed during 30 min.; filtered through gauze, centrifuged, and the supernatant dialyzed against distd. H₂O for 48 hrs. at 5-8°; (2) the skin was passed through a meatgrinder at room temp., mixed with an equal vol. of distd. H₂O contg. toluene, and held at 37° for 24 hrs. The mixt. was then filtered through gauze, centrifuged, and dialyzed as above. The final product usually had a pH 6.8-7.0. Amylolytic activity was detd. by the amt. of reducing substances accumulated and in some instances by the diminution in the amt. of glycogen. Dextrin and sugars were tested for. The influence of phosphorolysis on amylolytic properties of the skin was detd. by the inorg. pH method. The pH was detd. by the method of Fisk and SubbaRow, reducing substances by Hagedorn and Jensen, sugars by Fugit and Dumasere, glycogen by Henkin fermentation method, dextrans by the starch-I₂ procedure. Aq. exts. of rabbit skin have the power to split starch and glycogen; skin amylase is activated by chlorides and globulins and is inhibited by resorcinol and HgCl₂. Since skin amylase is completely inactivated at pH 3.3 and retains its activity at 70°, it may be assumed that the enzyme is of an α form.

B. S. Levine

(2)

Chem Biochemistry,
Arkhangelsk Med. Inst

RITTENBERG, A.

TECHNOLOGY

REVISTA CONSTRUCTILOR SI A MATERIALELOR DE CONSTRUCTII. Vol. 10, no. 11,
Nov. 1958.

Some remarks pertinent to the dimensioning of neutral conductors. p.559.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 1,2
May 1959, Unclass.
Max P.

RITTLBERG, A.

Discussion on the legal instructions to utilize aluminum in consumers'
electric installations. p. 91

Vol. 2, no. 2, Feb. 1954

ANAL. G. ICA

Bucuresti

Source: East European Accessions List (EAL), LC, Vol. 5, No. 2
Feb. 1956

RITTENBERG, V.; ROMAN, P.; DIDIV, B.

A simple method for avoiding awn deposits at the increase
of silicon monocrystals in vacuum. Studii cerc metallurgie
7 no.1:115-116 '62.

34909

R/004/62/000/002/001/002

D014/D105

18.9500

AUTHORS: Roman, P., Rittenberg, V., Didiv, B., and Bălănel, E., (Bucharest)

TITLE: Production of high-purity silicon single crystals

PERIODICAL: Electrotehnica, no. 2-3, 1962, 41 - 52

TEXT: The article deals with the principles of pure silicon manufacture and investigations conducted by ICET - Institutul de cercetări electrotehnice (Electrotechnical Research Institute) on the production of high-purity silicon single crystals for transistors and rectifiers. The authors discuss the production of silicon bars by the reduction of trichlorosilane with hydrogen on a specially shaped tantalum wire, and the production of high-purity p-type silicon single crystals by the zone melting process and the single crystal seed drawing method. Described are a zone melting installation and a single crystal seed drawing installation, both made by ICET. Silicon bars, 300 mm long and 16 mm in diameter can be refined in the zone melting installation, supplying pure single silicon crystals with a resistivity of 30-300 Ω cm. The seed drawing installation was built for 150-gr silicon charges, but only 55-80-gr charges

Card 1/2

X

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D014/D105

Production of high-purity silicon

were subjected to the seed drawing process. The diameter of the seed was 5-6 mm, while the silicon single crystals obtained were 100-110 mm long and 18-25 mm in diameter, with a resistivity of 10-150 Ω cm. In a few exceptional cases, the single crystals had sections where resistivity exceeded 1,000 Ω cm. The results can be improved by increasing the purity of trichlorosilane and by using the method of decomposition on silicon. There are 18 figures and 1 table. The most important English-language reference reads as follows: W.G. Pfann: Trans. A.I.M.M.E., 197, 1952, 747.

ASSOCIATION: ICET

Card 2/2

X

44308

S/058/62/000/012/046/048
A062/A101

18 9500

AUTHORS: Rittenberg, V., Roman, P., Didiv, B.

TITLE: A simple method of preventing "whisker" formation in growth of silicon single crystals in vacuo

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1962, 6, abstract 12-4-11sh ("Studii și cercetări metalurgie Acad. RPR", 1962, 7, no. 1, 115 - 116, Rumanian)

TEXT: Formation of "whiskers" occurs in the zone melting process in vacuo as a result of the intensive evaporation of Si from the melted zone and of the formation of a residue deposit on the inner surface of the quartz tube. When displacing the molten zone, the residue layer is cooled and contracted, which results in the detaching of whiskers from the layer. The whiskers, torn away, fall onto the sample which is being cleaned. As far as the admixtures evaporate first, the whiskers constitute a source contaminating the single crystal; moreover, they form on the boundary between the solid and liquid phases, crystallization centers that are obstacles to the growth of single crystals. To avoid these

Card 1/2

A simple method of preventing...

S/058/62/000/012/046/048
A062/A101

phenomena, it is necessary to grind the inner surface of the quartz tube with carborundum; this ensures a strong cohesion of the layer, formed during evaporation, with the glass. There is 1 reference.

N. S.

[Abstracter's note: Complete translation]

Card 2/2

DIDIV, B.; RITTENBERG, V.; ROMAN, P.

Distribution of impurities in an ingot of semiconducting materials, starting from an alloyed tablet through repeated zone melting and with application to the alloying of silicon. Studii cerc metalurgie 7 no.1:63-72 '62.

RITTENBERG, V.; DIDIV, B.; ROMAN, P.

Dislocation and macles in silicon monocrystals obtained
by zone melting. Studii cerc metalurgie 7 no.1:51-61
'62.

BOIAN, F. (Bucuresti); RITTENBERG, V. (Bucuresti); DIDIV, B. (Bucuresti)
BALANEL, E. (Bucuresti)

Obtaining high-purity silicon monocrystals. Electrotehnica 10 no.2/3:
41-52 F-Mr '62.

1. Colectiv la Institutul de Cercetari Electrotehnice.

RITTENBERG, V.

Bibliography, Studies in Chemistry, Vol. VII,
No. 1, 1962

1. "The 'Photochemical' Transformation of Iron Tetrachloride to the Form of Iron Tetrachloride and Nickel Dioxide" pp 7-12.
2. "Sintering of Alloys with a Polymorphic Phase for Thermoelectric Refrigerators," Nature Physics and Electronics, pp 3-4.
3. "Dislocation and Vacancies in Silicon Monocrystals Obtained by the Method of Zonal Melting," V. RITTENBERG, S. DIDIV and P. PAVLOV, pp 51-54.
4. "Study on the Description of Impurities in an Inert of Sintering Material Starting from an Amorphous Phase through Repeated Zonal Melting with Application to Silicon Sintering," B. DIDIV, V. RITTENBERG and P. PAVLOV, pp 53-54.
5. "Considerations on the Content of Gases and Non-metallic Inclusions in Various Raw Materials," L. SOLENI, G. COSMIDARU, E. VIGORELLO and S. FALCETTI, pp 73-87.
6. "Experimental Studies on the Influence of the Deformation Temperature on the Mechanical Properties of Silicon Monocrystals," R. PISCHKE and A. SCHMIDT, pp 89-91.
7. "Contributions to the Elaboration of 'Nuclear' Powders Used in Agricultural Technology," Alexandru Doina, Liviu BOYCU and Maria PALAVIDA, pp 103-113.
8. "Studies on the Deposit of 'Nuclear' during the Growth of Silicon Monocrystals in Vacuum," V. RITTENBERG, P. PAVLOV and S. DIDIV, pp 115-116.

104
CDS: 1000-1

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RITTENBERG, V.

- Bucharest, Studiul 22, Căminul de Vădușari, Vol VII,
No 1, 1961.
1. "The Subject of the Transformation of Iron II to
to some of the Properties of Steels," Ordinu ILIU and
P. SOLODI, pp 1-26.
 2. "Sintering Alloys with a Tantalum Base for Thermo-
electric Refrigeration," Revista Fizicologica and Nicoale
PIRANCI, pp 3-5.
 3. "Observation and Measurements in Silicon Monocrystals Obtained
by the Method of Zonal Melting," V. RITTENBERG, B. DIDIV
and P. SOLODI, pp 51-61.
 4. "Study on the Distribution of Impurities in an Iron of
Sintering Material Starting from an enriched
Palladium through Repeated Zonal Melting with Applica-
tions to Silicon Monocrystals," B. DIDIV, V. RITTENBERG
and P. SOLODI, pp 63-72.
 5. "Considerations on the Content of Gases and Non-metallic
Inclusions in Industrial Raw Iron," L. SOLODI,
C. OSWALD, L. VIRGILIU and S. FRICIBAN, pp 73-87.
 6. "Experimental Studies on the Influence of the Deforma-
tion Intensity on the Mechanical Properties of Certain
Types of Iron-Led Alloyed Steels with Temperatures,"
B. SOLODI and I. DRAGAN, pp 9-10.
 7. "Contributions to the Elaboration of Magnetic Powders
with Superconducting Properties," Revista Fizicologica,
L. SOLODI and SOLODI, pp 103-113.
 8. "Single Crystal to Avoid the Deposit of 'Nucleation'
during the Growth of Silicon Monocrystals in Vacuum,"
V. RITTENBERG, P. SOLODI and B. DIDIV, pp 115-116.

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RITTENBERG, V.

1. "The 'Sublimation' Transformation of Iron II to Some of the Properties of Steels," Oxidation and Rusting, pp 7-12.
2. "Semiconducting Alloys with a Titanium Base for Thermoelectric Refrigerators," Nature Physics and Nuclear Physics, pp 3-4.
3. "Oxidation and Rusting in Silicon Monocrystals Obtained by the Method of Zonal Melting," V. RITTENBERG, S. DIDIV and P. KIVAN; pp 51-61.
4. "Study on the Distribution of Impurities in an Ingot of Semiconducting Material Separated from an Annotated Particle Through Repeated Zonal Melting with Applications to Silicon Enrichment," S. DIDIV, V. RITTENBERG and P. KIVAN; pp 63-72.
5. "Conclusions on the Content of Gases and Non-metallic Inclusions in Indispensable Raw Materials," L. SOZOV, G. OSWALD, L. NIKOLAI and S. FENCIGAN; pp 73-87.
6. "Experimental Studies on the Influence of the Deformation Intensity on the Mechanical Properties of Order in Types of Thin Layered Sheets at High Temperatures," R. FISCHER and L. BRADY; pp 89-102.
7. "Contributions to the Elaboration of 'Magnetic Powders' in Agricultural Technology," Alexander DORNA, Levin DORNA and Armin FALCHAU; pp 103-113.
8. "Single Method to Avoid the Deposit of 'Nuts' during the Growth of Silicon Monocrystals in Vacuum," V. RITTENBERG, P. KIVAN and S. DIDIV; pp 115-118.

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S/194/62/000/012/051/101
D271/D308

AUTHORS: Rittenberg, V., Didiv, B. and Roman, P.

TITLE: Dislocations and doublets in Si single crystals obtained by zone melting

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 7, abstract 12-4-13 b (Studii si cerce-tari metalurgie Acad. RPR, v. 7, no. 1, 1962, 51-61 (Rum.; summaries in Rus. and Fr.))

TEXT: Dislocations were detected by etching. It was found that dislocation distribution and density are identical in both longitudinal and transverse cross-sections, and structure distortion in the end-region of a single crystal is due to the presence of impurities. It was established that dislocation density in a growing single crystal is independent of the dislocation density of etching. Interaction of dislocations and doublets is considered. After thermal processing at 1350°C for 14 hours, polygonization of dislo-

Card 1/2

Dislocations and doublets ...

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cations was observed and nonpolygonized dislocations were oriented along the preferred direction. / Abstracter's note: Complete translation. /

Card 2/2

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S/194/62/000/012/050/101
D271/D308

189500

AUTHORS: Rittenberg, V., Roman, P. and Didiv, B.

TITLE: A simple method for preventing whisker formation when growing silicon single crystals in vacuum

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 6, abstract 12-4-11 sh (Studii si cerce-tari metalurgie Acad. RPR, v. 7, 1962, no. 1m 115-116 (Rum.))

TEXT: Whisker formations arise during zone melting in vacuum as a result of intensive evaporation of Si in the molten zone and its settling on the inner surface of the quartz tube. As the molten zone moves, the settled layer is cooled and compressed, leading to whisker separation from the layer. The whiskers tear off and fall on the purified specimen. As impurities are the first to evaporate, whiskers become a source of impurity in the single crystal: they also become crystallization centers on the boundary between solid and liquid phases, and disturb the growth of single crystals. In

Card 1/2